

# Risk Analysis—Volume 16, 1996

*Risk Analysis* provides a focal point for new developments in risk analysis for scientists from a wide range of disciplines. The analysis of risks is being increasingly viewed as a field in itself, and the demand for a more orderly and formal treatment of risks is great. *Risk Analysis* is designed to meet these needs of organizations, integration, and communication. The journal covers topics of great interest to regulators, researchers, and scientific administrators. It deals with health risks, engineering, mathematical and theoretical aspects of risks, and social and psychological aspects of risks such as risk perception, acceptability, economics, and ethics. All scientific articles in *Risk Analysis* are fully peer reviewed.

**Official Journal of the Society for Risk Analysis:** Society members should direct all correspondence, such as changes of address, to Society for Risk Analysis, 1313 Dolly Madison Boulevard, Suite 102, McLean, Virginia 22102.

Statements and opinions expressed in publications of the Society for Risk Analysis or in presentations given during its regular meetings are those of the author(s) and do not necessarily reflect the official position of the Society for Risk Analysis, the editors, or the organizations with which the authors are affiliated. The Editor(s), publisher, and Society disclaim any responsibility or liability for such material and do not guarantee, warrant, or endorse any product or service mentioned. Official positions of the Society are established only by its Council.

## EDITOR-IN-CHIEF

**Curtis Travis**, Oak Ridge National Laboratory, Oak Ridge, Tennessee

## SENIOR EDITOR

**Robert Cumming**, Oak Ridge National Laboratory, Oak Ridge, Tennessee

## ASSOCIATE EDITOR

**David Johnson**, Pickard, Lowe, and Garrick, Inc., Newport Beach, California  
**Timothy O'Riordan**, University of East Anglia, Norwich, U.K.

## EDITORIAL BOARD

**Elizabeth Anderson**  
Sciences International, Inc.

**Vicki Bler**  
University of Wisconsin, Madison

**Vincent Covello**  
Columbia University

**Louis Cox**  
Cox Associates

**John Evans**  
Harvard School of Public Health

**Bill Farland**  
U.S. Environmental Protection Agency

**Adam Finkel**  
Department of Labor, OSHA

**Ann Fisher**  
Pennsylvania State University

**John Garrick**  
Pickard, Lowe, and Garrick

**David Gaylor**  
National Center for Toxicological Research

**Mike Gough**  
U.S. Congress

**John Graham**  
Harvard School of Public Health

**Susan Hadden**  
Lyndon Johnson School

**Yacov Halmes**  
University of Virginia

**Ronald Hart**  
National Center for Toxicological Research

**David Hoel**  
Medical University of South Carolina

**Barry Johnson**  
ATSDR, Atlanta, Georgia

**Nancy Nell**  
InterStudy

**Dan Krewski**  
Health and Welfare Canada

**Howard Kunreuther**  
University of Pennsylvania

**Lester Lave**  
Carnegie Mellon University

**Douglas MacLean**  
University of Maryland

**Ilan Mattison**  
University of Arkansas Hospital for Medical Sciences

**Torbjorn Malmfors**  
Malmfors Consulting AB, Stockholm

**Tom McKone**  
Lawrence Livermore National Laboratory

**Mortimer Mendelson**  
Lawrence Livermore National Laboratory

**M. Grainger Morgan**  
Carnegie Mellon University

**Paul Moskowitz**  
Brookhaven National Laboratory

**Warner North**  
Decision Focus, Inc.

**David Okrent**  
University of California Los Angeles

**Harry Otway**  
Los Alamos National Laboratory

**Dennis Pausenbach**  
ChemRisk

**Christopher Portier**  
NIEHS, Research Triangle Park, North Carolina

**Peter Preuss**  
U.S. Environmental Protection Agency

**Paul Slovic**  
Decision Research

**V. Kerry Smith**  
Duke University

**Chauncey Starr**  
Electric Power Research Institute

**Ola Svenson**  
Stockholm University

**Arthur Upton**  
New York University Medical Center

**Chris Whipple**  
ICF Kaiser Engineers

**Robin White**  
Oak Ridge National Laboratory

**Richard Wilson**  
Harvard University

**Detlof von Winterfeldt**  
University of Southern California

**Lauren Zeise**  
COMTU, Berkeley, California

*Risk Analysis* is published bimonthly by Plenum Publishing Corporation, 233 Spring Street, New York, N.Y. 10013. *Risk Analysis* is abstracted or indexed in Current Contents, Documentation Occupational Health, Documentation Medizin im Umweltschutz, Engineering Index, Ergonomics Abstracts, Geo Abstracts, INSPEC—Computer and Control Abstracts, Insurance Abstracts and Reviews, Insurance, Mathematics & Economics, Insurance Periodicals Index, Pollution Abstracts, Psychological Abstracts, Referativnyi Zhurnal, Safety Science Abstracts Journal, Sage Urban Studies Abstracts, and Sociological Abstracts. © 1996 Society for Risk Analysis. *Risk Analysis* participates in the Copyright Clearance Center (CCC) Transactional Reporting Service. The appearance of a code line at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use. However, this consent is given on the condition that the copier pay the flat fee of \$9.50 per copy per article (no additional per-page fees) directly to the Copyright Clearance Center, Inc., 222 Rosewood Drive, Danvers, Massachusetts 01923, for all copying not explicitly permitted by Sections 107 or 108 of the U.S. Copyright Law. The CCC is a nonprofit clearinghouse for the payment of photocopying fees by libraries and other users registered with the CCC. Therefore, this consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale, nor to the reprinting of figures, tables, and text excerpts. 0272-4332/96 \$9.50

Advertising inquiries should be addressed to Advertising Sales, Plenum Publishing Corporation, 233 Spring Street, New York, N.Y. 10013—telephone (212) 620-8495 and fax (212) 647-1898.

Subscription inquiries and subscription orders should be addressed to the publisher at Subscription Department, Plenum Publishing Corporation, 233 Spring Street, New York, N.Y. 10013 or faxed to the Subscription Department at its number (212) 807-1047, or may be telephoned to the Subscription Department's Journal Customer Service at (212) 620-8468, -8470, -8472, or -8082. Subscription rates:

Volume 16, 1996 (6 issues) \$395.00 (outside the U.S., \$460.00).

Volume 17, 1997 (6 issues) \$435.00 (outside the U.S., \$510.00).

Periodicals postage paid at New York, N.Y., and at additional mailing offices. Postmaster: Send address changes to *Risk Analysis*, Plenum Publishing Corporation, 233 Spring Street, New York, N.Y. 10013.

Printed in the USA.

*Risk Analysis* is published bimonthly by Plenum Publishing Corporation, 233 Spring Street, New York, N.Y. 10013. *Risk Analysis* is abstracted or indexed in Current Contents, Documentation Occupational Health, Documentation Medizin im Umweltschutz, Engineering Index, Ergonomics Abstracts, Geo Abstracts, INSPEC—Computer and Control Abstracts, Insurance Abstracts and Reviews, Insurance, Mathematics & Economics, Insurance Periodicals Index, Pollution Abstracts, Psychological Abstracts, Referativnyi Zhurnal, Safety Science Abstracts Journal, Sage Urban Studies Abstracts, and Sociological Abstracts. © 1996 Society for Risk Analysis. *Risk Analysis* participates in the Copyright Clearance Center (CCC) Transactional Reporting Service. The appearance of a code line at the bottom of the first page of an article in this journal indicates the copyright owner's consent that copies of the article may be made for personal or internal use. However, this consent is given on the condition that the copier pay the flat fee of \$9.50 per copy per article (no additional per-page fees) directly to the Copyright Clearance Center, Inc., 222 Rosewood Drive, Danvers, Massachusetts 01923, for all copying not explicitly permitted by Sections 107 or 108 of the U.S. Copyright Law. The CCC is a nonprofit clearinghouse for the payment of photocopying fees by libraries and other users registered with the CCC. Therefore, this consent does not extend to other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works, or for resale, nor to the reprinting of figures, tables, and text excerpts. 0272-4332/96 \$9.50

Advertising inquiries should be addressed to Advertising Sales, Plenum Publishing Corporation, 233 Spring Street, New York, N.Y. 10013—telephone (212) 620-8495 and fax (212) 647-1898.

Subscription inquiries and subscription orders should be addressed to the publisher at Subscription Department, Plenum Publishing Corporation, 233 Spring Street, New York, N.Y. 10013 or faxed to the Subscription Department at its number (212) 807-1047, or may be telephoned to the Subscription Department's Journal Customer Service at (212) 620-8468, -8470, -8472, or -8082.

# Risk Analysis

Volume 16, Number 1

February 1996

---

## CONTENTS

### LETTERS TO THE EDITOR

- Radon Plateout on Synthetic Fibers as a Possible Risk Factor in Breast Cancer 1  
*P. M. Kildea, Jr. and T. C. Lee*
- Comment on "Uptake of Chloroform by Skin During Short Exposures to Contaminated Water" 3  
*Halina S. Brown*

### ARTICLES

- On the Selection of Distributions for Stochastic Variables 5  
*Fritz A. Seiler and Joseph L. Alvarez*
- Major Chemical Accidents in Industrializing Countries: The Socio-Political Amplification of Risk 19  
*Marcelo Firpo de Souza Porto and Carlos Machado de Freitas*
- Media Coverage of Hazard Events: Analyzing the Assumptions 31  
*William R. Freudenburg, Cynthia-Lou Coleman, James Gonzales, and Catherine Helgeland*
- A Monte Carlo Procedure for the Construction of Complementary Cumulative Distribution Functions for Comparison with the EPA Release Limits for Radioactive Waste Disposal 43  
*J. C. Helton and A. W. Shiver*
- Industry Response to SARA Title III: Pollution Prevention, Risk Reduction, and Risk Communication 57  
*Susan L. Santos, Vincent T. Covello, and David B. McCallum*
- Risk-Based Environmental Remediation: Bayesian Monte Carlo Analysis and the Expected Value of Sample Information 67  
*Maxine E. Dakins, John E. Toll, Mitchell J. Small, and Kevin P. Brand*
- A Bayesian Benefit-Risk Model Applied to the South Florida Building Code 81  
*James D. Englehardt and Chengjun Peng*
- Recommendations on the Testing and Use of Pseudo-Random Number Generators Used in Monte Carlo Analysis for Risk Assessment 93  
*Timothy M. Barry*
- On the Correlation Coefficient Between the  $TD_{50}$  and the MTD 107  
*Mehdi Razzaghi and David W. Gaylor*
- Field Measurement of Dermal Soil Loading Attributable to Various Activities: Implications for Exposure Assessment 115  
*John C. Kissel, Karen Y. Richter, and Richard A. Fenske*
- BOOK REVIEWS 127
-

# Risk Analysis

Volume 16, Number 2

April 1996

---

## CONTENTS

### LETTER TO THE EDITOR

- Comments on Tengs *et al.*, "Comparative Study of the Cost-Effectiveness of Life-Saving Interventions" 131  
*Jerome S. Puskun and Byron Bunger*

### ARTICLES

- Developing a Subject-Derived Terminology to Describe Perceptions of Chemicals in Foods 133  
*Monique M. Raats and Richard Shepherd*
- A Distributed Parameter Physiologically-Based Pharmacokinetic Model for Dermal and Inhalation Exposure to Volatile Organic Compounds 147  
*A. Roy, C. P. Weisel, P. J. Liroy, and P. G. Georgopoulos*
- The Constrained Extremal Distribution Selection Method 161  
*Michael J. Lenox and Yacov Y. Haimes*
- Customer Perceptions of Agency Risk Communication 177  
*Ann Fisher and Ya-Chin Chen*
- Historical Application of a Social Amplification of Risk Model: Economic Impacts of Risk Events at Nuclear Weapons Facilities 185  
*William C. Metz*
- A Comparison of Two Statistical Approaches to Estimate Long-Term Exposure Distributions from Short-Term Measurements 195  
*Wout Slob*
- Derivation of a Target Concentration of Pb in Soil Based on Elevation of Adult Blood Pressure 201  
*Alan H. Stern*
- Ecological Risks to Fossorial Vertebrates from Volatile Organic Compounds in Soil 211  
*Tina M. Carlsen*
- Risk Assessment of Nongenotoxic Carcinogens Based upon Cell Proliferation/Death Rates in Rodents 221  
*David W. Gaylor and Qi Zheng*
- Uncertainty and the Value of Information with Stochastic Losses from Global Warming 227  
*Stephen C. Peck and Thomas J. Teisberg*
- Who Holds the Stakes? A Case Study of Stakeholder Identification at Two Nuclear Weapons Production Sites 237  
*Patricia E. Boiko, Richard L. Morrill, James Flynn, Elaine M. Faustman, Gerald van Belle, and Gilbert S. Omenn*
- Credibility, Information Preferences, and Information Interests 251  
*Helmut Jungermann, Hans-Rüdiger Pfister, and Katrin Fischer*
- Uncertainty and Variation in Indirect Exposure Assessments: An Analysis of Exposure to Tetrachlorodibenzo-*p*-Dioxin from a Beef Consumption Pathway 263  
*Paul S. Price, Steave H. Su, Jeff R. Harrington, and Russell E. Keenan*
- SOFTWARE REVIEW
- An Evaluation of Three Representative Multimedia Models Used to Support Cleanup Decision-Making at Hazardous, Mixed, and Radioactive Waste Sites 279  
*P. D. Moskowitz, R. Pardi, V. M. Fthenakis, S. Holtzman, L. C. Sun, and B. Irla*
- BOOK REVIEWS 289
-

# Risk Analysis

Volume 16, Number 3

June 1996

## CONTENTS

### EDITORIAL

- Epidemiology, Risk Assessment, and Public Policy: Restoring Epistemic Warrants 291  
*Gio Batta Gori*

### LETTERS TO THE EDITOR

- Comment on "An Approach for Balancing Health and Ecological Risks at Hazardous Waste Sites" 295  
*D. C. Kocher and F. O. Hoffman*
- Response to "Comment on 'An Approach for Balancing Health and Ecological Risks at Hazardous Waste Sites'" 299  
*Glenn W. Suter II*
- Response to Dr. Barry's Article on Environmental Tobacco Smoke/Regarding Mr. Wilson's Letter 301  
*Steven Bayard and Jennifer Jinot*
- Response to the Comments Made by Steven Bayard and Jennifer Jinot 303  
*Daniel Barry*

### ARTICLES

- Using Time Intervals Between Expected Events to Communicate Risk Magnitudes 305  
*Neil D. Weinstein, Kathryn Kolb, and Bernard D. Goldstein*
- On-Site Storage of High Level Nuclear Waste: Attitudes and Perceptions of Local Residents 309  
*Gilbert W. Bassett, Jr., Hank C. Jenkins-Smith, and Carol Silva*
- Small Parts Aspiration, Ingestion, and Choking in Small Children: Findings of the Small Parts Research Project 321  
*Gene Rider and Cheryl L. Wilson*
- A General Model for Exposure and Uptake from Consumer Products 331  
*Mark P. van Veen*
- Monte Carlo Modeling of Time-Dependent Exposures Using a Microexposure Event Approach 339  
*Paul S. Price, Cynthia L. Curry, Philip E. Goodrum, Michael N. Gray, Jane I. McCrodden, Natalie W. Harrington, Heather Carlson-Lynch, Russell E. Keenan*
- Systemic Uptake and Clearance of Chloroform by Hairless Rats Following Dermal Exposure. I. Brief Exposure to Aqueous Solutions 349  
*Mohammad S. Islam, Luhua Zhao, Joseph Zhou, Lilly Dong, James N. McDougal, and Gordon L. Flynn*
- Identifying Dangerous Trucking Firms 359  
*Leon N. Moses and Ian Savage*
- The Effects of Exposure to "Synthetic" Chemicals on Human Health: A Review 367  
*Peter M. VanDoren*
- Uncertainties in the Link Between Global Climate Change and Predicted Health Risks from Pollution: Hexachlorobenzene (HCB) Case Study Using a Fugacity Model 377  
*T. E. McKone, J. I. Daniels, and M. Goldman*
- A Simple Upper Limit for the Sum of the Risks of the Components in a Mixture 395  
*David W. Gaylor and James J. Chen*
- A Simulation Study of the Influence of Study Design on the Estimation of Benchmark Doses for Developmental Toxicity 399  
*Robert J. Kavlock, Judith E. Schmid, and R. Woodrow Setzer, Jr.*
- An Effective Statistical Approach for Comparative Risk Assessment 411  
*Cherng G. Ding, York Y. Woo, Her-Jiun Sheu, Hui-Chen Chien, and Shu-Fen Shen*
- Citizen Perceptions of Risks Associated with Moving Radiological Waste 421  
*Mark K. McBeth and Ann S. Oakes*
- Examining Psychometrics and Polarization in a Single-Risk Case Study 429  
*Craig W. Trumbo*
- BOOK REVIEWS 439

# Risk Analysis

Volume 16, Number 4

August 1996

---

## CONTENTS

### LETTERS TO THE EDITOR

- Response to John Kissels' Letter to the Editor "Characterization of Soil Adherence to Skin: Impact of Historical Misinterpretation of the Que Hee *et al.* Data" 443  
*Brent Finley and Paul Scott*
- No-Effect Concentration as a Basis for Ecological Risk Assessment 445  
*S. A. L. M. Kooijman, J. J. M. Bedaux, and W. Slob*

### ARTICLES

- A Biologically-Based Dose-Response Model for Developmental Toxicology 449  
*Brian G. Leroux, Wendy M. Leisenring, Suresh H. Moolgavkar, and Elaine M. Faustman*
- Fishing in a Polluted Estuary: Fishing Behavior, Fish Consumption, and Potential Risk 459  
*Helen May and Joanna Burger*
- What Determines Trust in Information About Food-Related Risks? Underlying Psychological Constructs 473  
*L. J. Frewer, C. Howard, D. Hedderley, and R. Shepherd*
- Public Perceptions of Everyday Food Hazards: A Psychometric Study 487  
*Chris Fife-Schaw and Gene Rowe*
- The SAM Framework: Modeling the Effects of Management Factors on Human Behavior in Risk Analysis 501  
*Dean M. Murphy and M. Elisabeth Paté-Cornell*
- The Role of Geographic Scale in Monitoring Environmental Justice 517  
*Susan L. Cutter, Danika Holm, and Lloyd Clark*
- An Analytical Framework for Relating Dose, Risk, and Incidence: An Application to Occupational Tuberculosis Infection 527  
*Mark Nicas*
- Application of a Biologically-Based RFD Estimation Method to Tetrachlorodibenzo-P-Dioxin (TCDD) Mediated Immune Suppression and Enzyme Induction 539  
*Lynne Fahey McGrath, Panos Georgopoulos, and Michael A. Gallo*
- Quantifying Water Pathogen Risk in an Epidemiological Framework 549  
*Joseph N. Eisenberg, Edmund Y. W. Seto, Adam W. Olivieri, and Robert C. Spear*
- The Role of Heavy Drinking in the Risk of Traffic Fatalities 565  
*Bruce P. Kennedy, Nancy E. Isaac, and John D. Graham*
- Cardiac Sensitization Thresholds of Halon Replacement Chemicals Predicted in Humans by Physiologically-Based Pharmacokinetic Modeling 571  
*Allen Vinegar and Gary W. Jepson*
- An Empirical Analysis of Rock Climbers' Response to Hazard Warnings 581  
*Paul M. Jakus and W. Douglass Shaw*
- Variance-Based Importance Analysis Applied to a Complex Probabilistic Performance Assessment 587  
*Randall D. Manteufel*

### BOOK REVIEWS

599

---

# Risk Analysis

Volume 16, Number 5

October 1996

## CONTENTS

### EDITORIAL

- Better Risk Information for Communities 601  
*Iddo K. Wernick*

### LETTERS TO THE EDITOR

- Response to "Urinary Excretion of Chromium Following Ingestion of Chromite-Ore Processing Residues in Humans: Implications for Biomonitoring" by Gargas et al. 605  
*Alan H. Stern, Natalie C. G. Freeman, and Michael Gochfeld*
- Response to Letter to the Editor Written by Stern et al. Regarding the Paper, "Urinary Excretion of Chromium Following Ingestion of Chromite-Ore Processing Residues in Humans: Implications for Biomonitoring" 609  
*Michael Gargas, Dennis J. Paustenbach, Brent L. Finley, and Mark A. Harris*
- Cancer Prevention, Rodent High-Dose Cancer Tests, and Risk Assessment 613  
*Bruce N. Ames, Lois Swirsky Gold, and Mark K. Shigenaga*

### PERSPECTIVES

- Consideration of Background Exposures in the Management of Hazardous Waste Sites: A New Approach to Risk Assessment 619  
*Allan H. Smith, Stanley Sciortino, Helen Goeden, and Catherine C. Wright*
- Overview of Recent Developments in Ecotoxicological Risk Assessment 627  
*Keith R. Solomon*

### ARTICLES

- Three Conceptions of Quantified Societal Risk 635  
*Pieter Jan M. Stallen, Rob Geerts, and Han K. Vrijling*
- Exposure of Contractors to Chemical Pollutants During the Maintenance Shut-Down of a Chemical Plant 645  
*Michel Hery, François Diebold, and Gérard Hecht*
- A Semiparametric Approach to Risk Assessment for Quantitative Outcomes 657  
*Ronald J. Bosch, David Wypij, and Louise M. Ryan*
- Comparison of Contact Site Cancer Potency Across Dose Routes: Case Study with Epichlorohydrin 667  
*Gary L. Ginsberg, William E. Pepekko, Robert L. Goble, and Dale B. Hattis*
- Assessing Cross-Media Impacts: A Comparative Risk Approach 683  
*D. S. Borys, R. D. Skarzinskas, and L. D. Green*
- Exposure-Response Functions for Health Effects of Air Pollutants Based on Epidemiological Findings 693  
*Kristin Anan*
- A Nonidentifiability Aspect of the Two-Stage Model of Carcinogenesis 711  
*Leonid G. Hanin and Andrej Yu. Yakovlev*
- Risk Perception: An Empirical Study of the Relationship Between Worldview and the Risk Construct 717  
*Christina G. S. Palmer*

- ERRATA 725

- BOOK REVIEWS 727



# Risk Analysis

Volume 16, Number 6

December 1996

## CONTENTS

### LETTER TO THE EDITOR

#### Radon and Breast Cancer

*John S. Neuberger and R. William Field*

729

### PERSPECTIVE

#### A Perspective on the Risk Assessment Process for Endocrine-Disruptive Effects on Wildlife and Human Health

*Robert J. Kavlock and Gerald T. Ankley*

731

### ARTICLES

#### Interspecies Extrapolation of Physiological Pharmacokinetic Parameter Distributions

*Karen H. Watanabe and Frédéric Y. Bois*

741

#### Age and Gender Differences in Perceived Accident Likelihood and Driver Competences

*A. Ian Glendon, Lisa Dorn, D. Roy Davies, Gerald Matthews, and Ray G. Taylor*

755

#### Estimation of Dietary Exposure to Chemicals: A Case Study Illustrating Methods of Distributional Analyses for Food Consumption Data

*Jeffrey H. Driver, Michael E. Ginevan, and Gary K. Whitmyre*

763

#### Risk Perception and Symptom Reporting

*Donald G. MacGregor and Raymond Fleming*

773

#### Hybrid Processing of Stochastic and Subjective Uncertainty Data

*J. Arlin Cooper, Scott Ferson, and Lev Ginzburg*

785

#### Risk Characterization and the Weight of Evidence: Adapting Gatekeeping Concepts from the Courts

*Vern R. Walker*

793

#### Addressing the Dependency Problem in Access Security System Architecture Design

*John E. Kobza and Sheldon H. Jacobson*

801

#### Evaluation of False Positive and False Negative Outcomes in NTP Long-Term Rodent Carcinogenicity Studies

*J. K. Haseman and M. R. Elwell*

813

#### Developing and Testing a Facility Location Model for Canadian Nuclear Fuel Waste

*Kevin R. Ballard and Richard G. Kuhn*

821

#### Determination of Leukemogenic Benzene Exposure Concentrations: Refined Analyses of the Pliofilm Cohort

*A. Robert Schnatter, Mark J. Nicolich, and Michael G. Bird*

833

#### A Conceptual Framework to Assess the Risks of Human Disease Following Exposure to Pathogens

*Ronald Brown, Gunther Craun, Alfred Dufour, Joe Eisenberg, Jeffery Foran, Charles Gauntt, Charles Gerba, Charles Haas, Anita Highsmith, Robert Irbe, Päivi Julkunen, Dennis Juranek, Mark LeChevallier, Myron Levine, Bruce MacIer, Patricia Murphy, Pierre Payment, Fred Pfaender, Stig Regli, Alan Roberson, Joan Rose, Stephen Schaub, Gilbert Schiff, Jennifer Seed, Charlotte Smith, Mark Sobsey, Robert Spear, and Isabel Walls*

841

### BOOK REVIEW

849



